



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
Knoxville Environmental Field Office
3711 Middlebrook Pike
Knoxville, Tennessee 37921

April 6, 2017

Mr. Jerry Kerley, Water Resources Director
City of Crossville
963 City Lake Road
Crossville, TN 38572

RE: Holiday Lake Dam; Cumberland Co.
I.D. No. 18-7022

Dear Mr. Kerley:

On April 4, 2017, a Safety Inspection was conducted by personnel of this Division on the above referenced dam. Enclosed is an inspection report that outlines the observed conditions at the dam.

Based on this inspection, the dam appears to comply with the Safe Dams Act, T.C.A. 69-11-101 et seq., and therefore merits a Certificate of Approval and Safety for operation.

If you have not already done so, please sign the application sent to you earlier and return it along with the inspection fee of \$500.00. Please contact me at (865) 594-5562 if you have any questions. Your cooperation with the Safe Dams Program is appreciated.

Sincerely,

Terrell Hendren, P.E.
Environmental Consultant
Division of Water Resources
Knoxville Environmental Field Office

Enclosures

cc: Nashville, Safe Dams Program



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SAFE DAMS SECTION
DIVISION OF WATER RESOURCES
INSPECTION REPORT
DAM AND APPURTENANT WORKS

Name of Structure Holiday Lake Dam I.D. 18-7022

Owner City of Crossville County Cumberland

H.P.C. 1 Weather Partly Cloudy, Warm Date April 4, 2017

Last Inspection Date April 19, 2016 Lake Level NPL

Emergency Spillway Capacity: Required PMP Existing PMP

Persons Present at Inspection Terrell Hendren - TDEC Safe Dams

Any structural modifications, problem areas, or additional information should be sketched. If additional sheets are needed for further sketches or notes, these should also be noted and made a part of this report.

1. UPSTREAM (LAKESIDE) SLOPE OF DAM

A. Vegetative Cover Grass with riprap/gravel at the water's edge.

	Yes	No
Trees	<u> </u>	<u>X</u>
Brush and/or Briers	<u> </u>	<u>X</u>
Needs Mowing	<u> </u>	<u>X</u>

B. Erosion None noted

C. Slope Protection Riprap/Gravel

	Yes	No
Completely rip-rapped?	X	

Areas needing additional riprap No

D. Slumps, Slides, Cracks None noted

	Yes	No
Sketch of location attached?		X

E. Animal Burrows None noted

F. Drift and Debris None

	Yes	No
Blocking trash rack or riser inlet?		X

G. Remarks None

2. CREST (TOP OF DAM)

A. Vegetative Cover Asphalt roadway

	Yes	No
Trees	_____	X
Brush and/or briers	_____	X
Needs mowing	_____	X
Ruts from vehicle or foot traffic	_____	X

B. Erosion None noted

C. Slumps, Slides, Cracks None noted

	Yes	No
Sketch of location attached?	_____	X

D. Remarks None

3. DOWNSTREAM SLOPE OF DAM

A. Vegetative Cover Grass

	Yes	No
Trees	_____	X
Brush and/or briers	_____	X
Needs mowing and/or clearing	_____	X
Needs reseeding	_____	X

B. **Erosion** Negligible

C. **Seepage** Small seep present near the spillway wingwall. As noted previously, the flow appears to be coming through fractured bedrock and does not appear to pose a threat.

	Yes	No
Left Abutment (Looking Downstream)		X
Right Abutment (Looking Downstream)	X	
Toe of Dam		X
Sketch of location attached		X
Soil particles or discolored water in the seepage		X

ESTIMATED VOLUME OF SEEPAGE Negligible

D. **Slumps, Slides, Cracks** None noted

	Yes	No
Sketch of location attached?		X

E. **Animal Burrows** None noted

	Yes	N/A	No
Water coming from hole?		X	
Running water sounds heard?		X	

F. **Remarks** No changes were noted with the small seep.

4. PRINCIPAL SPILLWAY

A. Inlet

1. Type (concrete, metal, etc.) Concrete weir control section

2. Shape primarily rectangular

3. Condition Good

B. Outlet

1. Type (concrete, metal, etc.) Rock channel

2. Shape Rectangular

3. Condition Good

Is stilling basin rip-rapped?

Yes

No

X

C. Remarks None

5. EMERGENCY SPILLWAY

A. Type (rock, earthen, etc.) Same as principal spillway

B. Condition Good

Inlet blocked by debris?	Yes	No
	_____	X
Trees or brush growing in channel?	_____	X
	_____	_____

C. Remarks None

6. DRAWDOWN FACILITIES 42" dia metal pipe

When is last known time operated? 2010

Valved on upstream or downstream side? Downstream

Remarks None

7. DOWNSTREAM HAZARD POTENTIAL 1 - HIGH

Is a change in hazard classification needed?	Yes	No
	_____	X

If Yes, explain why

8. DO PLANS AND SPECIFICATIONS EXIST?	Yes	No
	X	_____

If so, where? City of Crossville

9. DO PIEZOMETERS EXIST?	Yes	No
	_____	X

If so, how many are present?

Remarks

10. GENERAL COMMENTS

None

11. RECOMMENDATIONS

Continue to clear the entire dam on a routine basis.

INSPECTOR'S SIGNATURE

Tendall New

INSPECTION REPORT SUMMARY

DAM NAME Holiday Lake Dam I.D. NUMBER 18-7022INSPECTION DATE April 4, 2017

The checklist below is marked to indicate the conclusions in the report.

GENERAL CONDITIONSSatisfactory Marginal DeficientUPSTREAM SLOPE

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Slope Protection

X

Slumps, Slides, Burrows

X

CREST OF DAM

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Ruts, Cracks

X

DOWNSTREAM SLOPE

Vegetative Cover

X

Mowed Adequately

X

Erosion

X

Seepage

X

Slumps, Slides, Burrows

X

SPILLWAYS AND DRAWDOWN FACILITIES

Spillway Capacity

X

Principal Spillway Condition

X

Emergency Spillway Condition

X

Drawdown Operable

X